

Claims

1. A handing method for providing a client with the location estimate of a target User Equipment (UE), the method comprising the steps of:

- A. The LCS (location service) system sending to the client the Location Information message carrying the location estimate of the target UE;
- B. The client, handling the location estimate of the target UE, and sending to the LCS system Location Information Acknowledgement with a handling result.

2. A method according to Claim 1, further comprising before the step A: a requestor originating a LCS location request against a target UE to the LCS system and requesting the LCS system to provide the location estimate of the target UE to a client, and a location estimate of the target UE was successfully obtained by the LCS system.

3. A method according to Claim 1, further comprising after the step B:

C. the LCS system, after receiving the Location Information Acknowledgement with the handling result, sending to the requestor an LCS Location Response carrying the handling result.

4. A method according to Claim 3, wherein the step C further comprises the steps of:

C1. After receiving the Location Information Acknowledgement with the handling result, GMLC (gateway mobile location center) in the LCS system sending to CN (Core Network) in the LCS system a Subscriber Location Report Acknowledgment, which carrying the handling result;

C2. After receiving the Subscriber Location Report Acknowledgment, the CN sending to the requestor an LCS Location Response carrying the handling result.

5. A method according to Claim 1, wherein

the step A comprises the GMLC in the LCS system sending to the client a Location Information message carrying the location estimate of the target UE; and

the step B comprises the client, after receiving the Location Information message, handling the location estimate of the target UE, and then sending to the GMLC the Location Information Acknowledgement carrying the handling result.

6. A method according to Claim 5, further comprising before the step B: GMLC in the LCS system sending to the CN in the LCS system the Subscriber Location Report Acknowledgement.
7. A method according to Claim 1, further comprising before the step B: the LCS system sending to the requestor the LCS Location Response.
8. A method according to Claim 1, wherein the handling result comprises a success flag indicating that the location estimate has been handled successfully by the client.
9. A method according to Claim 1, wherein the handling result of the client comprises a failure flag indicating that the location estimate has been handled unsuccessfully by the client.
10. A method according to Claim 9, wherein the handling result comprises further the error cause.
11. A method according to Claim 1, wherein the requestor comprises the target UE being located or a third-party device other than the target UE.
12. A method according to Claim 4, wherein the CN comprises MSC (Mobile Switch Center)/MSC Server or SGSN (Serving GPRS Support Node, GPRS General Packet Radio Service).
13. A method according to Claim 1, wherein the client comprises an LCS Client.
14. A method according to Claim 5, further comprising before the step B: the LCS system sending to the requestor the LCS Location Response.